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| **7.3 Word Problems: Systems of Equations** | **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| Miss Sciandra/Mrs. Britton | *Show work for credit.* |

*Set up a system of equations for each problem. Then, solve each system by whatever mathematical means you like.*

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| 1) | Julio bought tables and chairs for his restaurant. He bought 16 total items and spent $1800. Each table cost $150 and each chair cost $50. Let x represent the number of tables and y represent the number of chairs. How many tables and chairs did he buy? | 2) | Mrs. Flips sold 300 cookies for her bake sale. She sold two types of cookies: large chocolate chip and small peanut butter cookies. She charged $1 for the chocolate chip and 50-cents for the peanut butter cookies and collected $270 total. How many of each type did she sell? |
|  | 3) Dianne manufactures Mexican and American flags. Due to the costs of color, she charges $20 for Mexican flags and $15 for American flags. She sold twenty-eight flags and accumulated $460. How many flags of each type did she sell? | 4) | Penelope’s Printing Press promptly sold 5-cent pencils and 10-cent pens to the public. It sold 1000 writing utensils and took in $74.50 in sales. How many pens and how many pencils did Penelope’s Printing Press sell? |
|  | 5) Radio Shack had a special on rechargeable batteries. It sold AA for $1 and AAA for $0.75. It sold 42 batteries on a single day and received $37. How many batteries and of which type were sold? | 6) | Hilda owns her own landscaping company. She mows commercial and residential lawns and mows the lawns every week, which is a total of 120 lawns. She charges $40 for commercial and $20 for residential accounts. Every week, she takes in $2620 in revenue. How many accounts of each type does she manage? |

**Pick 1:**

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| A) | Franklin sold water bottles in two sizes, large ($2.50 each) and regular ($1 each). He sold 113 bottles altogether and collected $221 dollars. How many bottles of each type did he sell? |
| B) | Kimberly ran an amusement park with large animals. She charged $20 for horse rides and $50 for elephant rides. Fifty-five rides were offered and $2000 was collected. How many rides of each type were offered? |